

REDACTED

----- Forwarded by Leon Zavodnik/BASF-CATALYSTS/BASF on 11/15/2016 08:49 PM -----

From: Justin Quach/NA/BASF
To: Leon Zavodnik/BASF-CATALYSTS/BASF@BASF
Cc: Dennis Lucas/NA/BASF@BASF, Robert Scoggins/NA/BASF@BASF, Terrence M Vanderbosch/BASF-CATALYSTS/BASF@BASF
Date: 10/05/2014 05:52 PM
Subject: Re: Plan - PK Dust collector fan

Leon,

This was from a while ago, a day after the dP was already down to 3.2. I'm having Mike Baron purchase new shieves for several different higher speeds we can try. Please take a look at those MOC's and I'll see what I can do. Thx

Regards,

Justin Quach
Process Engineer - BASF Catalysts

Phone: (440)329-2501 Cell: (440)822-9800
Postal Address: 120 Pine St, Elyria, OH 44035
Email: Justin.Quach@BASF.com

Sent from my Blackberry

Leon Zavodnik---10/05/2014 11:41 PM CEDT---We can check the size in case it's needed but let's hold on a change.
Leon Zavodnik Operations Mana

From: Leon Zavodnik
To: Justin Quach
Cc: Dennis Lucas; Robert Scoggins; Terrence Vanderbosch
Date: 10/05/2014 11:41 PM CEDT
Subject: Re: Plan - PK Dust collector fan

We can check the size in case it's needed but let's hold on a change.

Leon Zavodnik
Operations Manager

Phone: 440-329-2592, Mobile: 440-821-6647, Fax: 440-323-2430, E-Mail: leon.zavodnik@basf.com
Postal Address: BASF Catalysts LLC, 120 Pine Street, Elyria, Ohio USA, 44035

Justin Quach---09/30/2014 01:31:23 PM---Leon, I just spoke with Mike about the PK dust collector, specifically about how high the dP was yes

From: Justin Quach/NA/BASF
To: Leon Zavodnik/BASF-CATALYSTS/BASF@BASF
Cc: Terrence M Vanderbosch/BASF-CATALYSTS/BASF@BASF, Robert Scoggins/NA/BASF@BASF, Dennis Lucas/NA/BASF@BASF
Date: 09/30/2014 01:31 PM
Subject: Plan - PK Dust collector fan

Leon,

I just spoke with Mike about the PK dust collector, specifically about how high the dP was yesterday, and he told me that Tom Kurucz took off an endcap and saw there was significant blockage in the horizontal line up to the dust collector. They cleaned it out and the additional flow is why they are getting in the 3.8-4.0" H2O range on the differential pressure. Knowing this, would you still want to do a sheave change on the fan? Seeing as we are now right in the middle of the range, speeding it up may actually put us in danger of going high. Let me know what you think, thanks.

Regards,

Justin Quach
Process Engineer - Catalysts

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From: Dennis Lucas/NA/BASF
To: Justin Quach/NA/BASF@BASF
Cc: Leon Zavodnik/BASF-CATALYSTS/BASF@BASF, Robert Scoggins/NA/BASF@BASF, Terrence M Vanderbosch/BASF-CATALYSTS/BASF@BASF
Date: 10/02/2014 06:04 AM
Subject: Building 9 DC

Justin,

We had trouble with the DP on the DC in B-9. We could only manage to get it up to 2.90.
We are down on the PK at the moment.

Thank you,
Dennis K. Lucas

Phone: 440-329-2561 Mobile: 440-319-0413 E-Mail: dennis.lucas@basf.com
Postal Address: BASF Catalysts LLC, 120 Pine Street., Elyria Ohio, 44035

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Date: 09/24/2014 01:44 PM
Subject: Re: URGENT: South PK Blender Dust Collector - Title V

All,

Here is a powerpoint with pictures on what to look for on the PK blender dust collection system. I've already gone over the system in the field with Mike Vanderbosch and day shift personnel, and I will try and connect with the other shifts sometime this week hopefully. Please put these slides into your safety meeting presentations. Thanks

(See attached file: PK Blender Dust Collector.pptx)

Regards,

Justin Quach
Process Engineer - Catalysts

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☞ Leon Zavodnik---09/23/2014 07:30:53 PM---Justin, Please put together some slides for the safety meeting that we can cover this week. I would

From: Leon Zavodnik/BASF-CATALYSTS/BASF
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Cc: Charles Evans/BASF-CATALYSTS/BASF@BASF, Dean R Gadoury/NA/BASF@BASF, Dennis Lucas/NA/BASF@BASF, John Bodmann/BASF-CATALYSTS/BASF@BASF, Kristen Kaput/NA/BASF@BASF, Noemi Trent/BASF-CATALYSTS/BASF@BASF, Robert Scoggins/NA/BASF@BASF, Terrence M Vanderbosch/BASF-CATALYSTS/BASF@BASF, Tim Anglin/EB-NAFTA/BASF@BASF, William Grodecki/NA/BASF@BASF

Justin,

Please put together some slides for the safety meeting that we can cover this week. I would also like for you to discuss directly with the PK operators to help explain what needs to be done. Some face to face time along with the explanation should help.

GL's..please make the guys available to Justin to discuss.

Leon Zavodnik
Operations Manager

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Justin Quach---09/23/2014 02:22:13 PM---All, Below are pictures of what I found when checking on the south PK blender dust collector differe

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Date: 09/23/2014 02:22 PM
Subject: URGENT: South PK Blender Dust Collector - Title V

All,

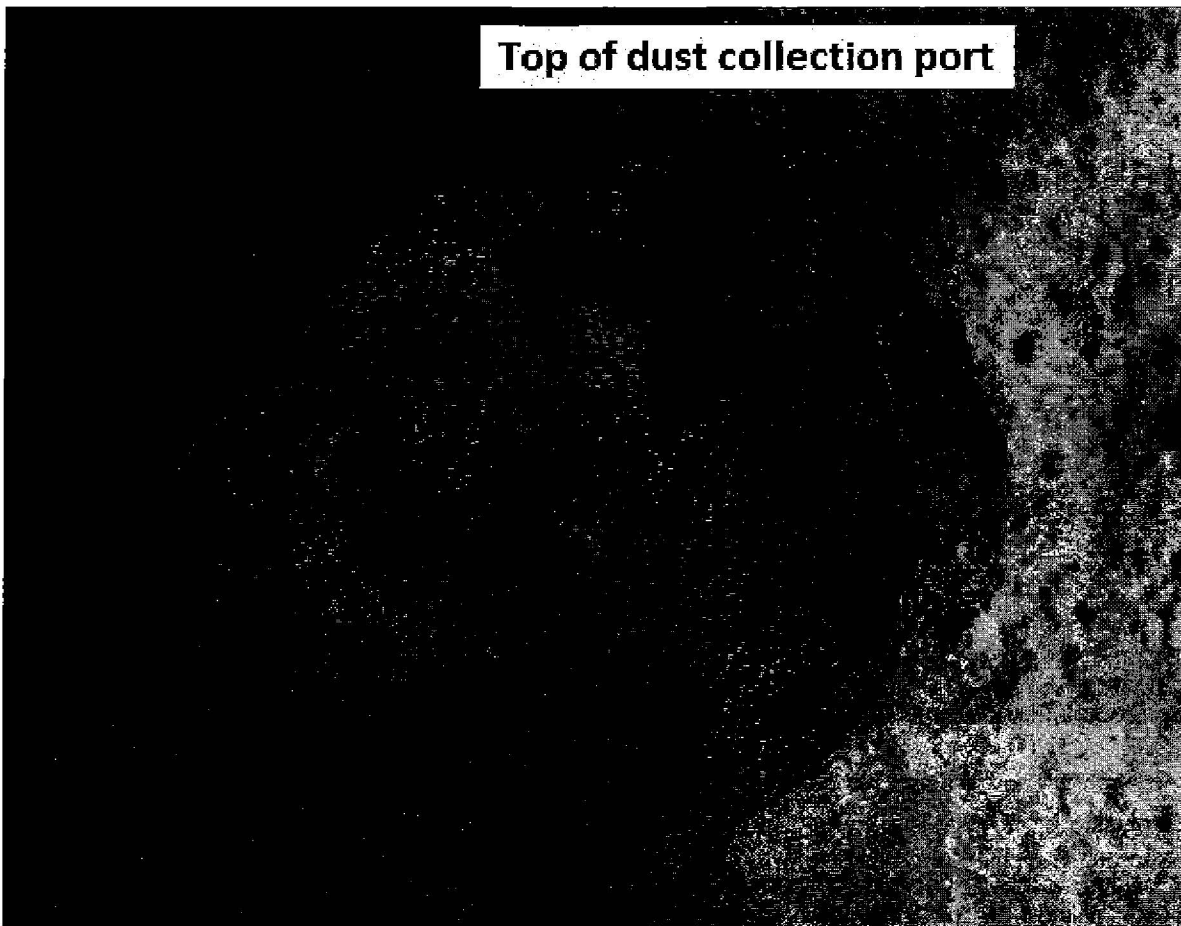
Below are pictures of what I found when checking on the south PK blender dust collector differential pressure. The dP had dropped to about 2.5" H2O(out of 3-5" Title V range). This drop happened sometime between yesterday afternoon and this morning.

I checked both dust collection ports on the PK blender discharge and again found both of them plugged after a weekend's worth of runtime. The system itself is a double wall system where the inner chamber if for discharging powder and the outer section is for nuisance dust collection. There is just a small lip at the top of the chamber where discharging powder can overflow into the dust collection side of the chamber. This means the entire inner portion of the chamber is getting full and spilling into the dust collection side. Eventually, this spillage fills up the entire dust collection port and chokes off flow, lowering the differential pressure on the dust collector and also essentially eliminating dust collection on the discharge of the PK. The dust collector will **NOT** be within Title V ranges if these ports are blocked off with material.

The location of the dust collector ports may be moved in the future to try and avoid this from happening, but if the entire chamber fills up it makes it extremely difficult to prevent pluggage.

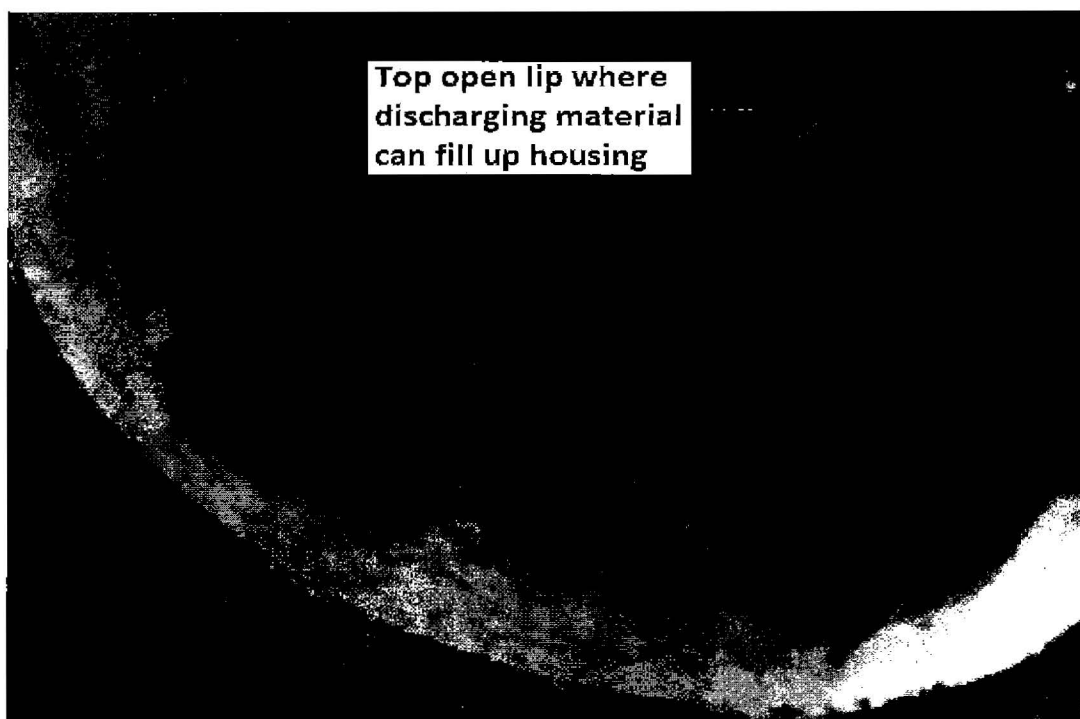
GL's/engineers, please make sure operators understand to unload the PK in as controlled a fashion as possible to avoid overfilling of this chamber. It is dust and difficult to clean out and will take us out of title V compliance. Please add this to the PK batch sheets and the cleaning of this chamber to the PK blender cleanout sheets. Thanks

Top of dust collection port



**Bottom of dust
collection housing**





Regards,

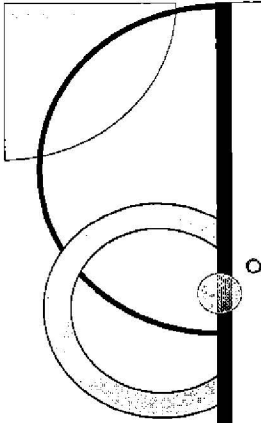
Justin Quach

Process Engineer - Catalysts

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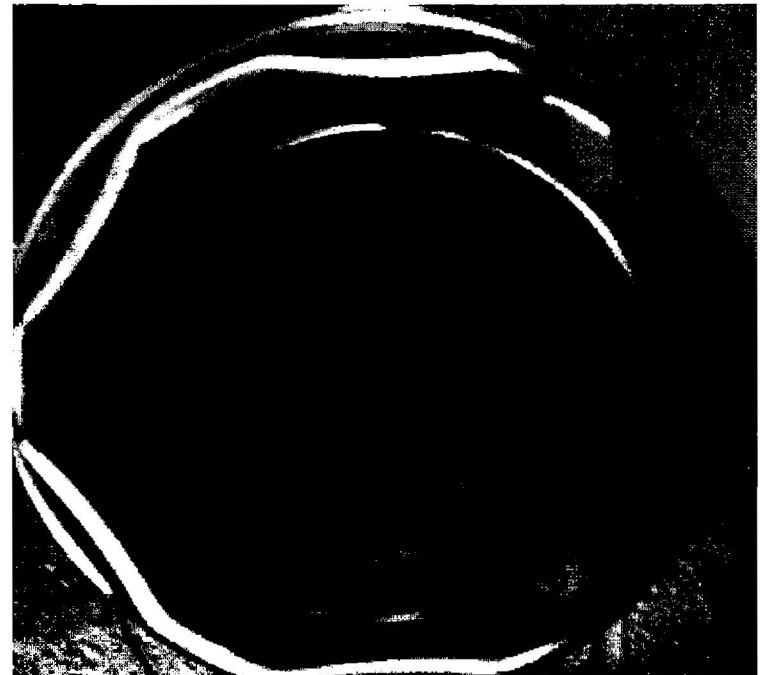
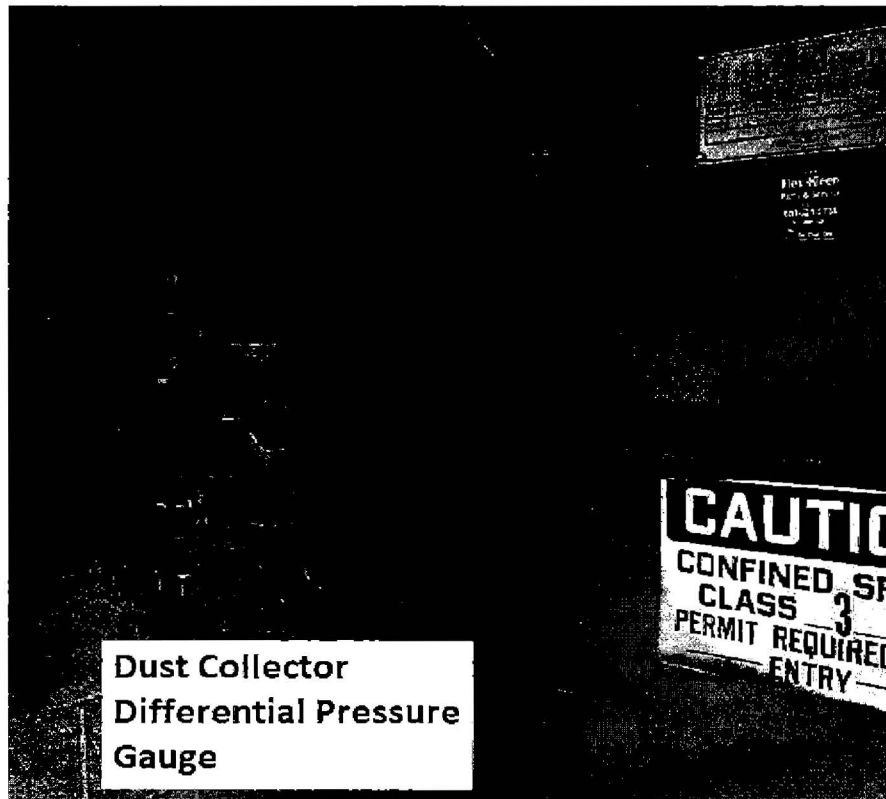


PK Blender Dust Collector

- Title V range is 3-5" H₂O on dust collector
- This range is the differential pressure on the collector
 - Differential pressure means the decrease in pressure across the bags inside the dust collector
- Changes have been made in the past week
 - Removed and blanked 35/49 bags
 - Unclogged dust collection lines
 - Opened up two more dust collection ports

Dust Collector Gauge

- Needs to be between 3-5" H₂O

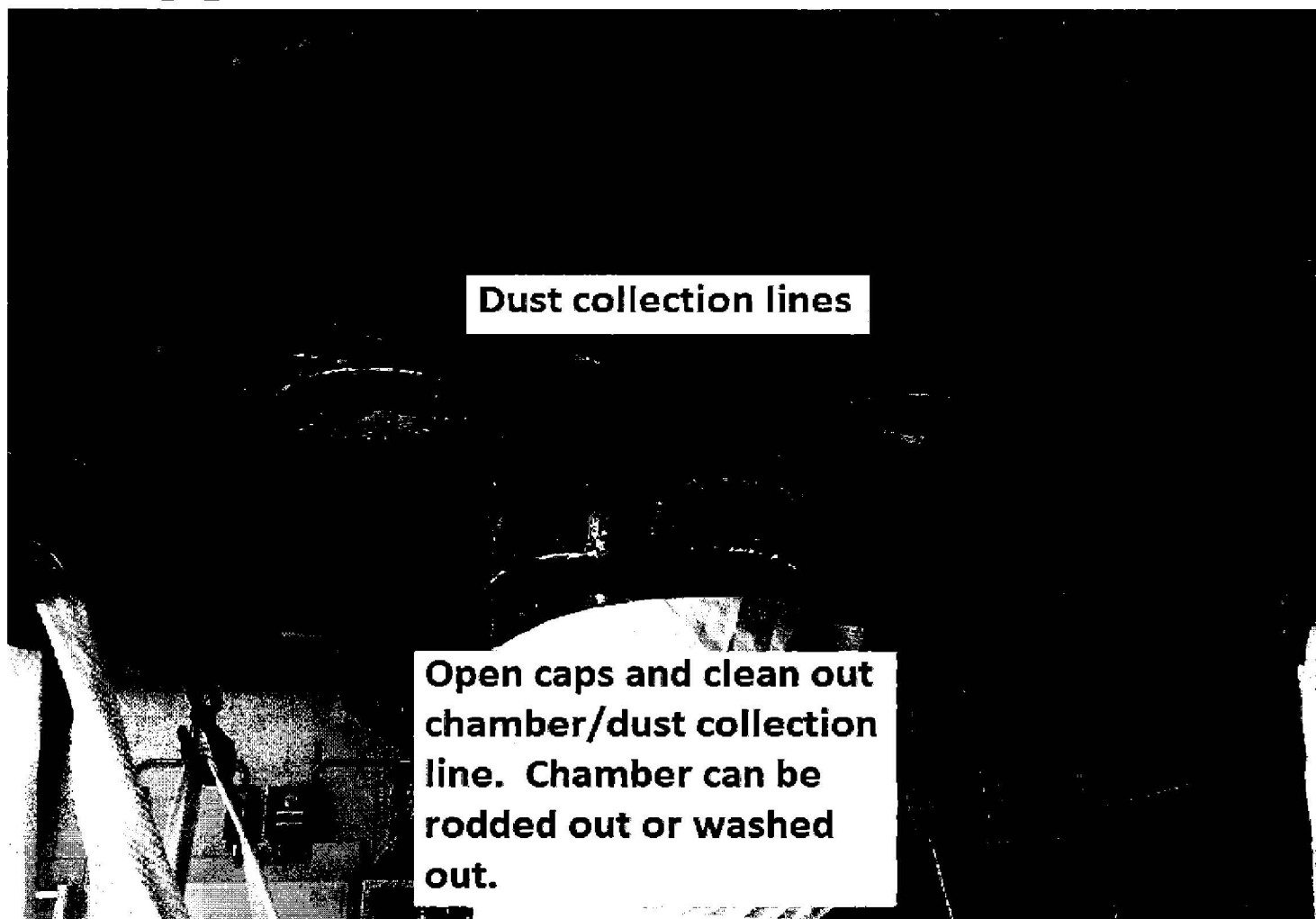


Clogged Dust Collection Lines

- If the gauge is below 3", check the dust collection lines on the PK discharge. Pull off flex hoses and check for pluggage



Clogged line cont.



Dust collection lines

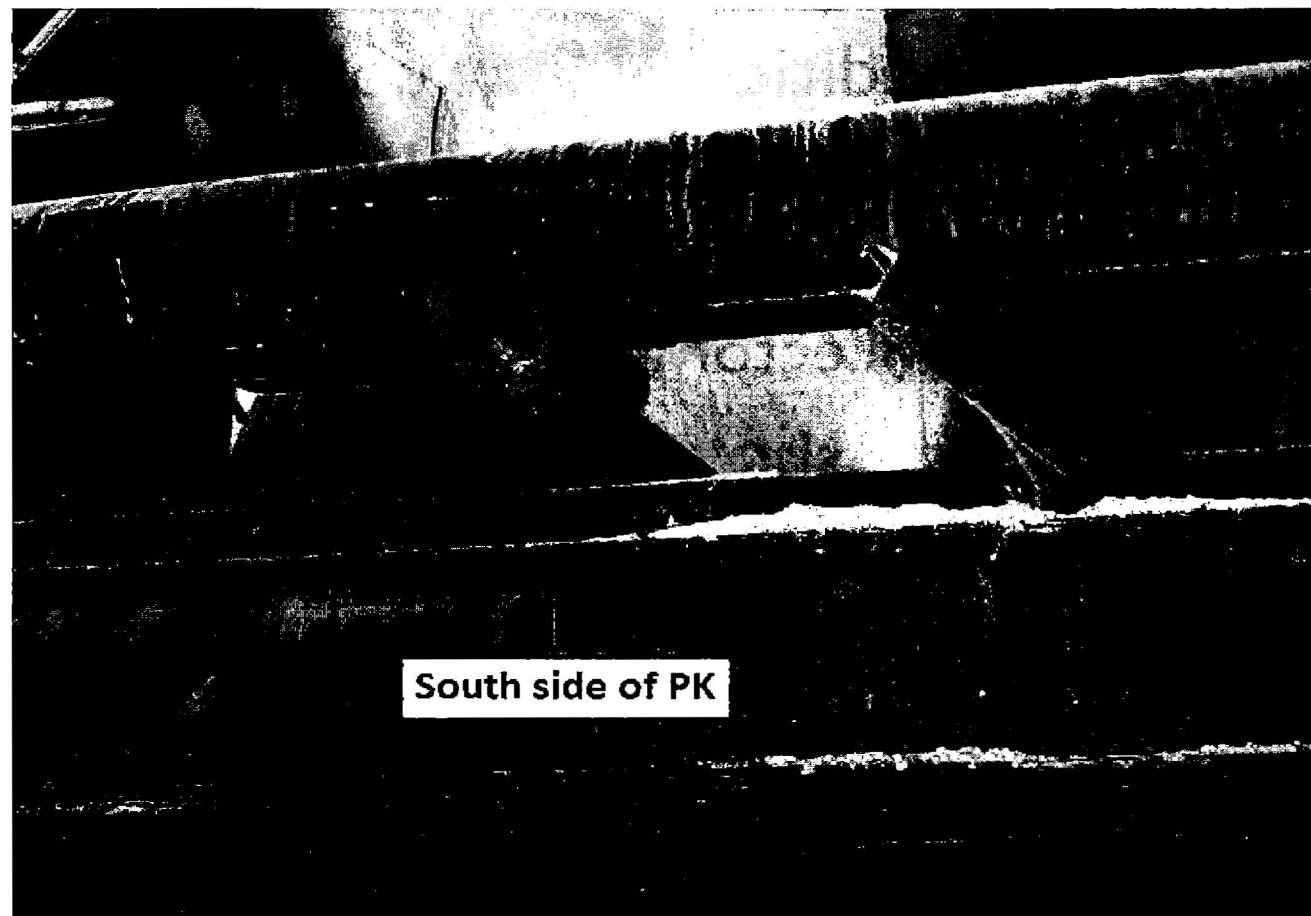
Open caps and clean out chamber/dust collection line. Chamber can be rodded out or washed out.



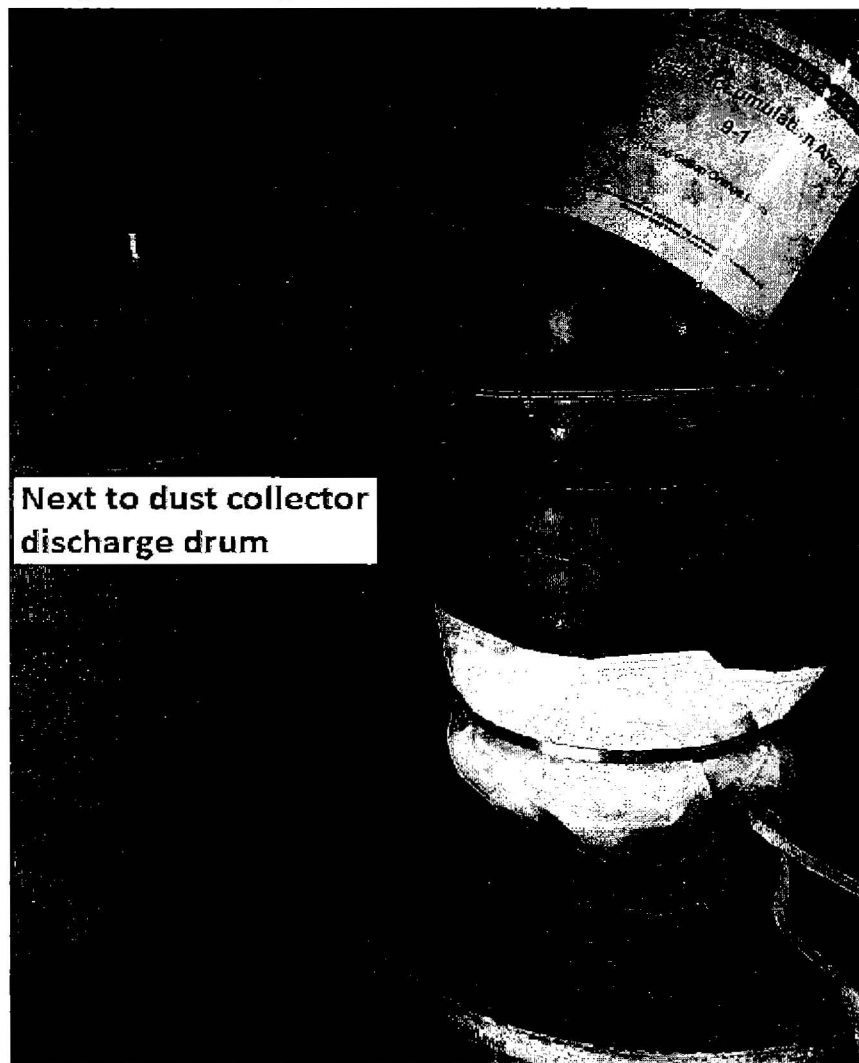
New open dust collection ports

- Two additional dust collection ports that were previously blanked off are now open
 - These allow additional air to be pulled into the collector and do not affect suction
- If gauge shows low differential pressure, check to make sure these ports are both open
 - Ports are to be kept open until further notice

New open ports cont.



New open ports cont

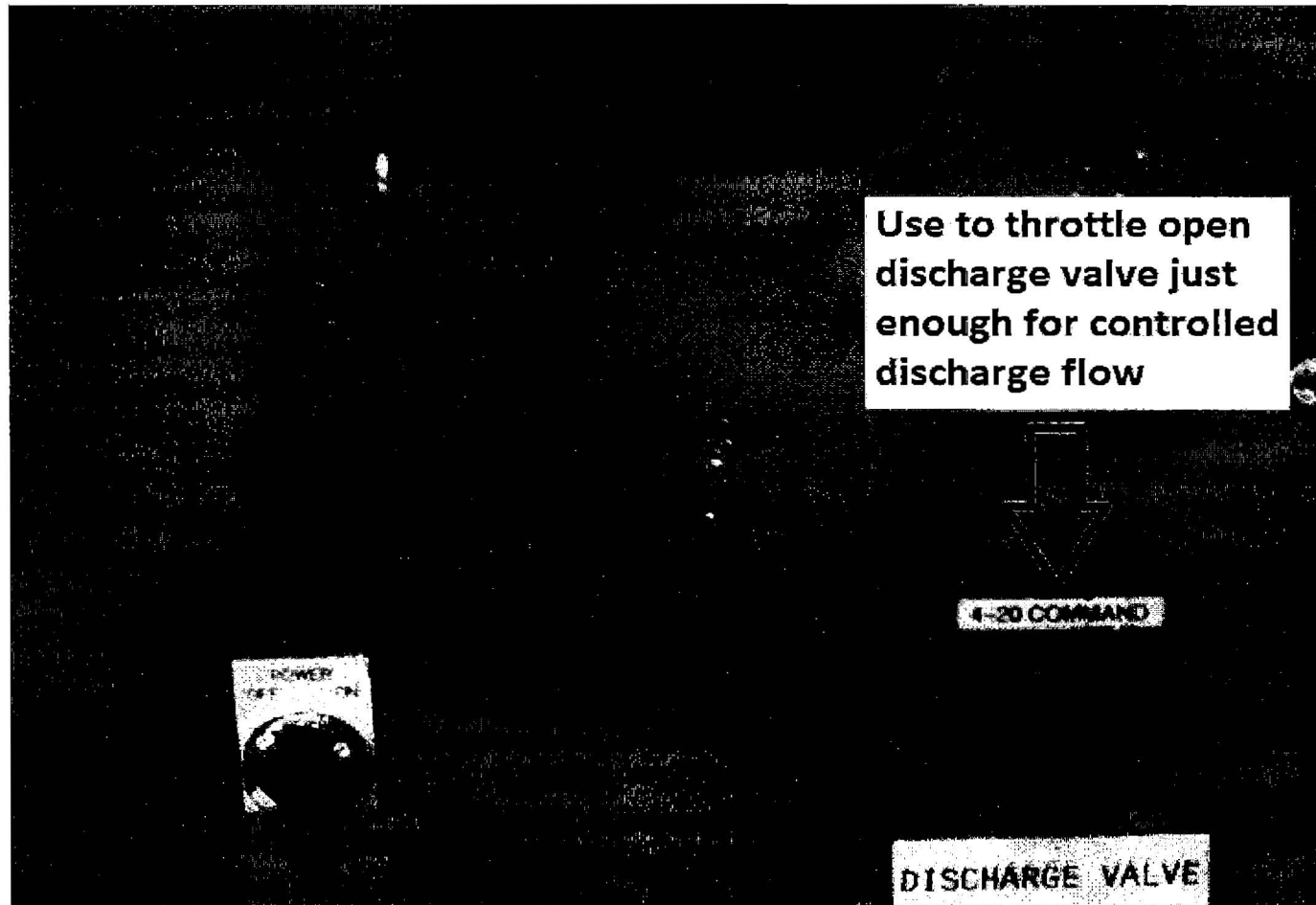




Unloading PK Blender

- To avoid plugging up the dust collection lines on the PK Blender, be sure to unload the PK at a slow controlled rate
- Use adjustable discharge valve and throttle it open just enough to fill supersack without overfilling
- Some products discharge easier than others, if overfilling does occur, make sure to check dust collection ports and clean as necessary

PK Blender Discharge Valve





Path Forward

- In the future, the PK Blender discharge dust collection lines will be moved or adjusted to help with the plugging problems
- Ideas to help with pluggage issue and PK discharge problems? Speak with Group Leader and Justin Quach

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Date: 09/29/2014 04:13 PM
Subject: Sheave change PK Blender Dust Collector Fan

All,

I spoke with Mike Baron about changing the sheaves on this fan to speed it up to help our differential pressure problems. To do this, we will at some point need to shut it down and take the guarding off of the motor/fan to see what we currently have. When we cleanup for Selexsorb after making the last 9 pillmix batches would be a good opportunity to do so. Please let me know when the pillmix batches are complete and I will get Mike and myself up there to take a look. Thanks

Regards,

Justin Quach
Process Engineer - Catalysts

Phone: 440-329-2501, Mobile: 440-822-9800, Fax: 440-329-2403, E-Mail: Justin.Quach@basf.com
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Date: 09/29/2014 11:23 AM
Subject: Bld 9 PK Blender Dust Collector Update

All,

The dP on the collector is now right at 3.0" H₂O. Please go ahead and finish the remaining pillmix batches, making some more batches should increase it a bit more also. Please make sure we do NOT blow down the dust collector manually, this is going the wrong way on the gauge and will not help us, I put a note on the analogue gauge upstairs warning of this. Thanks

Regards,

Justin Quach
Process Engineer - Catalysts

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Subject: Plan - PK Dust collector fan

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From: William D Deisenroth/BASF-CATALYSTS/BASF
To: Leon Zavodnik/BASF-CATALYSTS/BASF@BASF
Date: 09/23/2014 03:37 PM
Subject: Re: PK dust collector

Leon,

I'm good with looking into changing the sheave size / speed of the blower to get back to design. My only issue is that we (Matt, Mike, Greg or me) don't know the speed / sheave size off the top of our head, so why can't Justin go into the maintenance files and figure it out. Why is it that the process / production engineers just ask a question that we (maintenance) have to research and get an answer. Justin is an engineer and he should be able to read equipment files and figure out the design on his own.

Bill

William D. Deisenroth
Maintenance & Reliability Manager - Elyria, OH

Phone: (440) 329-2582 Mobile: (440) 822-1220
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☞ Leon Zavodnik---09/19/2014 06:51:40 AM---Justin is working on trying to get the PK dust collector back into the Title V operating range we ha

From: Leon Zavodnik/BASF-CATALYSTS/BASF
To: William D Deisenroth/BASF-CATALYSTS/BASF@BASF, Michael Baron/BASF-CATALYSTS/BASF@BASF
Cc: Justin Quach/NA/BASF@BASF
Date: 09/19/2014 06:51 AM
Subject: PK dust collector

Justin is working on trying to get the PK dust collector back into the Title V operating range we had a number of years

ago. The pressure drop we are trying to meet is 3-5 inches across the bags. Yesterday we capped off a number of the bags and we have raised the drop but we may not have raised it enough.

I believe this collector had a sheave change a number of years ago to slow the speed down and reduce noise levels. It's likely if we increase the speed slightly we can get back up to operating range. If Justin can't get it sorted out today we will need to look at a larger sheave. Justin could use your help in sizing the sheave.

Appreciate any help you can give us. The business is pushing pretty hard to have us get back up and we are shutting Vidalia down until we get materials to them

Leon Zavodnik
Operations Manager

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Date: 09/23/2014 02:22 PM
Subject: URGENT: South PK Blender Dust Collector - Title V

All,

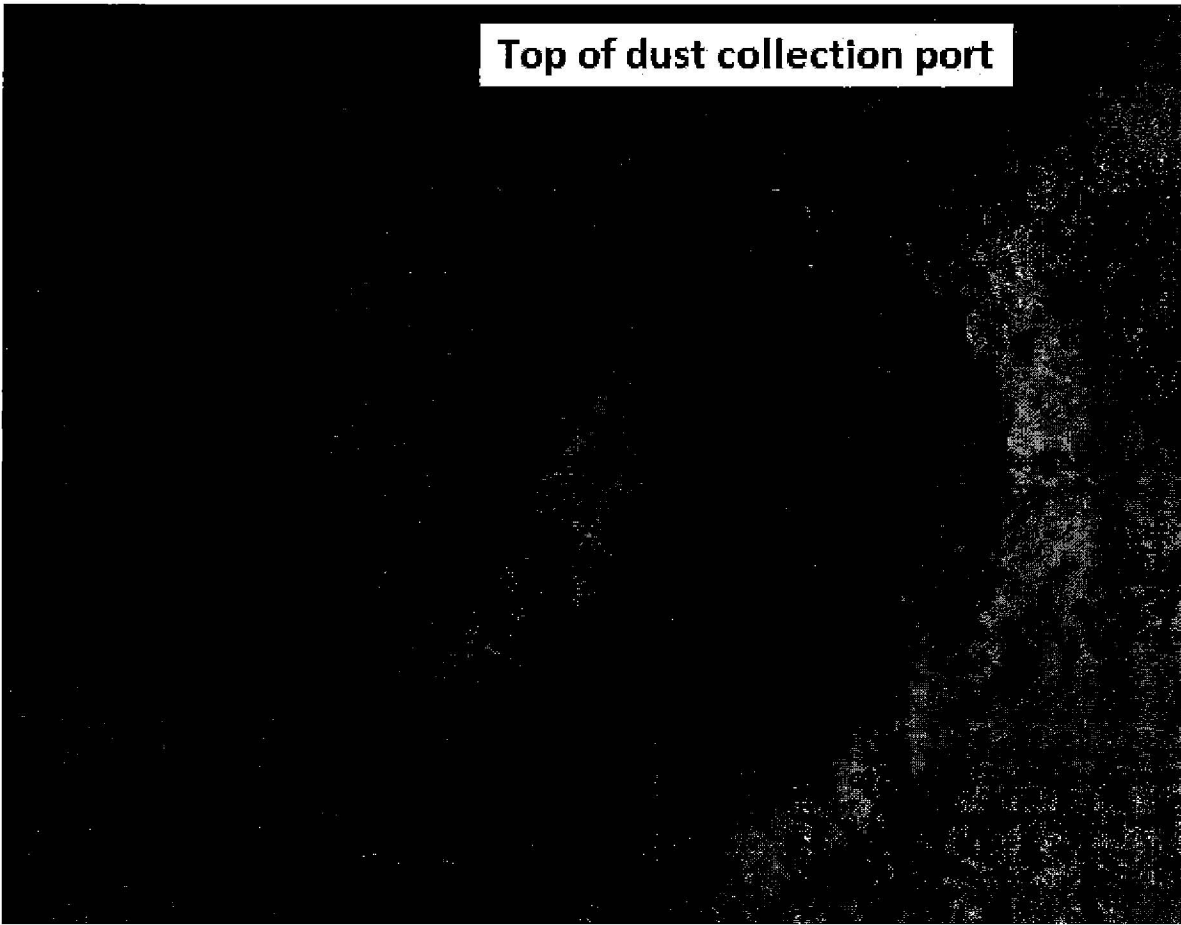
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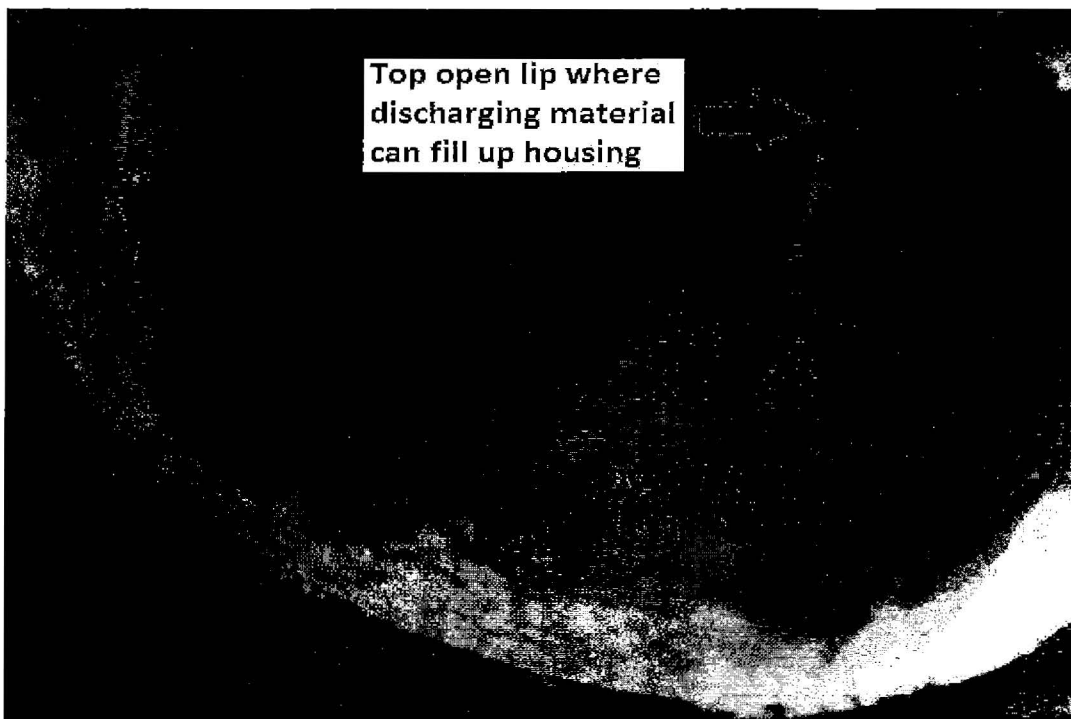
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Top of dust collection port



**Bottom of dust
collection housing**





Regards,

Justin Quach
Process Engineer - Catalysts

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